Appendix A

	Chemical/Radiological Monitoring									
			M	CLs	Treatment	Techniques	Significant Mon	itoring/Reporting		
SDWIS Codes	Contaminant	MCL (mg/*) ₁	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations		
Volatile	Organic Contaminants									
2378	1,2,4-Trichlorobenzene	0.07	0	0			9	7		
2380	cis-1,2-Dichloroethylene	0.07	0	0			9	7		
2955	Xylenes (total)	10	0	0			9	7		
2964	Dichloromethane	0.005	0	0			9	7		
2968	o-Dichlorobenzene	0.6	0	0			9	7		
2969	p-Dichlorobenzene	0.075	0	0			9	7		
2976	Vinyl chloride	0.002	0	0			9	7		
2977	1,1-Dichloroethylene	0.007	0	0			9	7		
2979	trans-1,2-Dichloroethylene	0.1	0	0			9	7		
2980	1,2-Dichloroethane	0.005	0	0			9	7		
2981	1,1,1-Trichloroethane	0.2	0	0			9	7		
2982	Carbon Tetrachloride	0.005	0	0			9	7		
2983	1,2-Dichloropropane	0.005	0	0			9	7		
2984	Trichloroethylene	0.005	0	0			9	7		
2985	1,1,2-Trichloroethane	0.005	0	0			9	7		
2987	Tetrachloroethylene	0.005	0	0			9	7		
2989	Monochlorobenzene	0.1	0	0			9	7		
2990	Benzene	0.005	0	0			9	7		
2991	Toluene	1	0	0			9	7		
2992	Ethylbenzene	0.7	0	0			9	7		
2996	Styrene	0.1	0	0			9	7		
Synthet	ic Organic Contaminants									
2005	Endrin	0.002	0	0			7	6		
2010	Lindane	0.0002	0	0			7	6		
2015	Methoxychlor	0.04	0	0			7	6		
2020	Toxaphene	0.003	0	0			7	6		
2031	Dalapon	0.2	0	0			0	0		
2032	Diquat	0.02	0	0			0	0		
2033	Endothall	0.1	0	0			0	0		
2034	Glyphosate	0.7	0	0			0	0		
2035	Di(2-ethylhexyl)adipate	0.4	0	0			7	6		
2036	Oxamyl (Vydate)	0.2	0	0			6	5		
2037	Simazine	0.004	0	0			7	6		
2039	Di(2-ethylhexyl)phthalate	0.006	0	0			7	6		
2040	Picloram	0.5	0	0			6	5		

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2041	Dinoseb	0.007	0	0			6	5
2041	Hexachlorocyclopentadiene	0.007	0	0			7	6
2042	Aldicarb Sulfoxide	na	0	U			6	5
2043	Aldicarb Sulfone	na					6	5
2044	Carbofuran	0.04	0	0			6	5
2040	Aldicarb	na	U	U			6	5
2050	Atrazine	0.003	0	0			7	6
			-	0			7	
2051	Alachlor	0.002	0	0				6
2063	2,3,7,8-TCDD (Dioxin)	3x10-8		0			<u> </u>	0
2065	Heptachlor	0.0004	0	0			· · · · · · · · · · · · · · · · · · ·	6
2067	Heptachlor epoxide	0.0002	0	0			7	6
2105	2,4-D	0.07	0	0			6	5
	2,4,5-TP	0.05	0	0			6	5
2274	Hexachlorobenzene	0.001	0	0			7	6
2306	Benzo[a]pyrene	0.0002	0	0			7	6
2326	Pentachlorophenol	0.001	0	0			6	5
2383	Total polychlorinated biphenyls	0.0005	0	0			7	6
2931	1,2-Dibromo-3-chloropropane (DBCP)	0.0002	0	0			0	0
2946	Ethylene dibromide (EDB)	0.00005	0	0			0	0
2959	Chlordane	0.002	0	0			7	6
2265	Acrylamide				0	0		
$\alpha \alpha r \tau$	I Enichloroby drin				0	1 0		
2257	Epichlorohydrin				U	U		
	polyfluoroalkyl Substances (PFAS)				0	0		
per- and	d polyfluoroalkyl Substances (PFAS) Hexafluoropropylene oxide dimer acid	370 pg/l	0	0			0	
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	370 ng/L	0	0		0	0	0
per- and	d polyfluoroalkyl Substances (PFAS) Hexafluoropropylene oxide dimer acid	420 ng/L	0	0			0	0
per- and 2816	Hexafluoropropylene oxide dimer acid (HFPO-DA)	•						
2816 2801	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS)	420 ng/L 51 ng/L 400,000	0	0			0	0
2816 2801 2803	Hexafluoroalkyl Substances (PFAS) Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS)	420 ng/L 51 ng/L 400,000 ng/L	0	0			0 0	0
2816 2801 2803 2809	Hexafluoroalkyl Substances (PFAS) Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA)	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L	0 0	0 0 0			0 0	0 0 0
2816 2801 2803 2809 2804	Hexafluoroalkyl Substances (PFAS) Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA)	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L 16 ng/L	0 0 0	0 0 0 0			0 0 0	0 0 0
2816 2801 2803 2809 2804 2805 2806	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonic acid (PFOS)	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L	0 0 0 0	0 0 0 0			0 0 0 0	0 0 0 0
2816 2801 2803 2809 2804 2805 2806	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA)	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L 16 ng/L	0 0 0 0	0 0 0 0			0 0 0 0	0 0 0 0
2816 2801 2803 2809 2804 2805 2806 Inorgan	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) ic Contaminants	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L 16 ng/L 8 ng/L	0 0 0 0 0 0	0 0 0 0 0			0 0 0 0 0	0 0 0 0 0
2816 2801 2803 2809 2804 2805 2806 Inorgan	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) ic Contaminants Total nitrate and nitrite	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L 16 ng/L 8 ng/L 10 (as Nitrogen) 10 (as	0 0 0 0 0 0 0	0 0 0 0 0 0 0			0 0 0 0 0 0 0	0 0 0 0 0 0
2816 2801 2803 2809 2804 2805 2806 Inorgan 1038	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Ic Contaminants Total nitrate and nitrite Nitrate	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L 16 ng/L 8 ng/L 10 (as Nitrogen) 10 (as Nitrogen) 1 (as Nitrogen) 0.01	0 0 0 0 0 0 0	0 0 0 0 0 0			0 0 0 0 0 0 0	0 0 0 0 0 0 0
2816 2801 2803 2809 2804 2805 2806 Inorgan 1038 1040	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) ic Contaminants Total nitrate and nitrite Nitrite	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L 16 ng/L 8 ng/L 10 (as Nitrogen) 10 (as Nitrogen) 1 (as Nitrogen)	0 0 0 0 0 0 0	0 0 0 0 0 0 0			0 0 0 0 0 0 0	0 0 0 0 0 0 0
2816 2801 2803 2809 2804 2805 2806 Inorgan 1038 1040 1041 1005	Hexafluoropropylene oxide dimer acid (HFPO-DA) Perfluorobutane sulfonic acid (PFBS) Perfluorohexane sulfonic acid (PFHxS) Perfluorohexanoic acid (PFHxA) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonic acid (PFOS) Perfluorooctanoic acid (PFOA) Ic Contaminants Total nitrate and nitrite Nitrate Nitrite Arsenic	420 ng/L 51 ng/L 400,000 ng/L 6 ng/L 16 ng/L 8 ng/L 10 (as Nitrogen) 10 (as Nitrogen) 1 (as Nitrogen) 0.01	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0			0 0 0 0 0 0 0	0 0 0 0 0 0 0

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1020	Chromium	0.1	0	0			3	3
				_				
1024	Cyanide (as free cyanide)	0.2	0	0			2	2
1025	Fluoride	4	0	0			2	2
1035	Mercury	0.002	0	0			3	3
1036	Nickel	na					3	3
1045	Selenium	0.05	0	0			3	3
1074	Antimony	0.006	0	0			3	3
1075	Beryllium	0.004	0	0			3	3
1085	Thallium	0.002	0	0			3	3
1094	Asbestos	7 million fibers/	0	0			0	0
Radionu	ıclides							
4000	Gross Alpha	15 pCi/l	0	0			1	1
4006	Combined Uranium	30 ug/l	0	0			0	0
4010	Radium 226 and Radium 228	5 pCi/l	0	0			1	1
4100	Gross Beta	4 mrem/yr	0	0			0	0
	All Chemical Groups Subtotal		10	4	0	0	411	32

		Revised T	otal Coliform F	Rule (Effective A	April 2016)			
			Mo	CLs	Treatment	Techniques	Significant Mon	itoring/Reporting
SDWIS Codes	Contaminant	MCL (mg/*)1	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations
1A	Acute MCL (E. coli)	Presence	3	3				
2A	Level 1 Assessment				1	1		
2B	Level 2 Assessment				0	0		
2C	Corrective action(s)				0	0		
2D	Startup procedures				0	0		
3A	Major routine monitoring						34	31
3B	Additional monitoring (seasonal supplies)						0	0
3C	Sampling during turbidity exceedence						0	0
3D	Certified lab and/or lab method error						0	0
4D	Notify state of E. coli positive						2	2
4E	Notify state of E. coli MCL						1	1
4F	Notify state of other violations						0	0
5A	Sampling Siting Plan errors						0	0
5B	Recordkeeping						0	0
	RTCR Subtotal		3	3	1	1	37	32

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	Lead and Copper Rule									
			M	MCLs Treatment Techniques			Significant Mon	itoring/Reporting		
SDWIS Codes	Contaminant	MCL (mg/*) ₁	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations		
	Initial lead and copper tap M/R						3	2		
	Routine lead and copper tap M/R						79	68		
53	Water Quality Parameter M/R						33	33		
56	Source Water M/R						2	2		
57	Treatment study or recommendation				3	3				
58	Treatment installation or demonstration				0	0				
59	WQP level noncompliance				1	1				
63	Copper, Free				0	0				
64	Lead Service Line Replacement				2	2				
65	Public Education				3	2				
66	Lead Consumer Notification						37	35		
	LCR Subtotal				9	8	154	111		

	Consumer Confidence Report Rule									
			MCLs		Treatment Techniques		Significant Monitoring/Reporting			
SDWIS Codes	Contaminant	MCL (mg/*)1	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations		
71	Failure to produce CCR						124	122		
	CCR Subtotal						124	122		

	Public Notification Rule										
			MCLs		Treatment Techniques		Significant Monitoring/Reporting				
SDWIS Codes	Contaminant	MCL (mg/*)1	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations			
75	PN for NPDWR violation						4	2			
	PN Subtotal						4	2			

	Surface Water Treatment Rules									
			M	CLs	Treatment	Techniques	Significant Mon	itoring/Reporting		
SDWIS Codes	Contaminant	MCL (mg/*)1	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations		
9	Failure to keep proper records						0	0		
29	Individual filter triggered activities						0	0		
32	Source monitoring (LT2)						0	0		
33	Failure to submit bin class (LT2)						0	0		
36	Monitoring (SWTR-Filtered)						0	0		
	Filter effluent monitoring/reporting						13	3		
37	Failure to profile / consult				0	0				
	Turbidity / disinfection residual				0	0				
41-0800	Failure of microbial treatment (LT2)				0	0				
42-0200	Failure to filter				0	0				
42-0800	Failure to provide LT2 treatment				0	0				
43	Combined filter effluent > 1 NTU				0	0				
44	> 5% comb. filter effluent > 0.3 NTU				0	0				
45	Failure to address deficiency				0	0				
47	Uncovered finished water storage				0	0				
	SWTRs Subtotal				0	0	13	3		

	Disinfectants and Disinfection Byproducts Rules									
			MCLs /	MRDLs	Treatment	Techniques	Significant Mon	itoring/Reporting		
SDWIS Codes	Contaminant	MCL / MRDL (mg/*)1	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations		
1009	Chlorite	1.0	0	0			0	0		
1011	Bromate	0.010	0	0			0	0		
2456	Total Haloacetic Acids	0.060	1	1			60	60		
2950	Total Trihalomethanes	0.080	0	0			61	61		
2920	Carbon, Total						1	1		
0999	Chlorine	4.0	0	0			4	4		
1006	Chloramines	4.0	0	0			0	0		
35	Failure to Submit OEL for TTHM						0	0		
11/1008	Chlorine Dioxide, non-acute	8.0	0	0			0	0		
13/1008	Chlorine Dioxide, acute	8.0	0	0						
12	Certified treatment plant operator				3	3				
46	Inadequate precusor removal (TOC)				0	0				
	DBPRs Subtotal		1	1	3	3	126	67		

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	Ground Water Rule									
			М	CLs	Treatment Techniques		Significant Monitoring/ Reporting/Other			
SDWIS Codes	Contaminant	MCL (mg/*)1	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations	Number of Violations	Number of Systems With Violations		
19	Source water assessment monitoring						0	0		
31	Failure to monitor treatment (4-log)						0	0		
34	Failure to monitor source water						15	15		
41	Failure of microbial treatment (4-log)				0	0				
42	Failure to provide treatment				0	0				
45	Failure to address significant deficiency				9	8				
48	Failure to address contamination				0	0				
5	Failure to notify state						0	0		
9	Failure to maintain records						0	0		
20	Failure to consult with state						2	2		
28	Sanitary survey cooperation failure						0	0		
73	Failure to notify consecutive system(s)						0	0		
	GWR Subtotal				9	8	17	17		

¹ Values are in milligrams per liter (mg/l), unless otherwise specified.

Summary Table						
Total Number of Regulated Systems	1,381					
Total Number of Systems in Violation	004					
(generally lower than the total number of violations, as one system may violate multiple requirements)	334					
Total Number of Violations	922					